

# Marina Stormwater Discharge Permit Work Session

March 11, 2010

## Step 2 - Developing a Stormwater Pollution Prevention Plan

### Overview

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# What do I have to do?

Step 1: Determine eligibility of activities that fall under this permit, if any.

Step 2: Develop a Stormwater Pollution Prevention Plan (SWPPP)

Step 3: File a Notice of Intent (NOI)

Step 4: Inspection, monitoring, reporting and corrective actions

# Step 2: Developing a SWPPP

## A Stormwater Pollution Prevention Plan (SWPPP):

- Describes the facility and its operations.
- Identifies potential sources of stormwater pollution at the facility.
- Specifies appropriate best management practices (BMPs) or pollution control measures to reduce the discharge of pollutants in stormwater runoff.
- Provides for periodic stormwater monitoring and analysis.

# Developing a SWPPP

## ➤ Use EPA Tools

- SWPPP Guidance Document

[http://www.epa.gov/npdes/pubs/industrial\\_swppp\\_guide.pdf](http://www.epa.gov/npdes/pubs/industrial_swppp_guide.pdf)

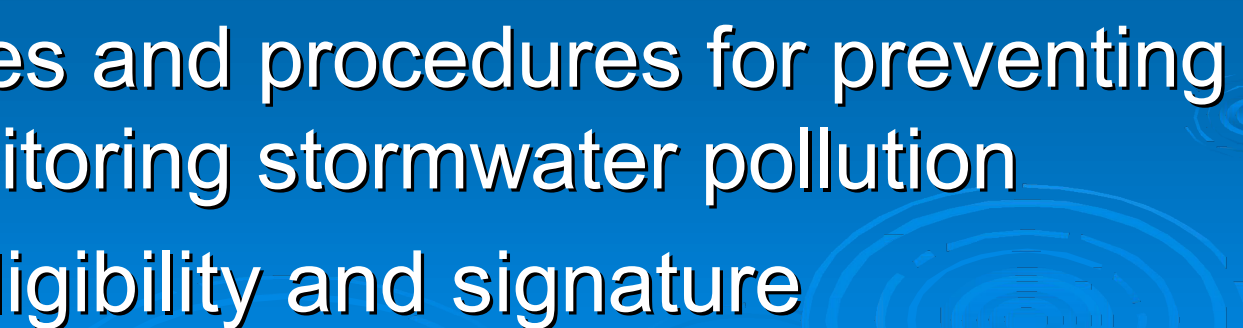
- SWPPP Template

[http://www.epa.gov/npdes/pubs/msgp2008\\_swppptemplate.doc](http://www.epa.gov/npdes/pubs/msgp2008_swppptemplate.doc)

## ➤ Hire a consultant to:

- Develop plan, file permit, develop sampling program, etc.

# Major Elements of a SWPPP

1. Identifies a stormwater pollution prevention team
  2. Site map
  3. Summary of potential pollution sources
  4. Description of stormwater controls
  5. Schedules and procedures for preventing and monitoring stormwater pollution
  6. Permit eligibility and signature
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# SWPPP – Element 1

## Stormwater Pollution Prevention Team

- List all staff on the team, including any consultants, and their responsibilities.
- Ensure team members have access to relevant parts of the stormwater plan (SWPPP).

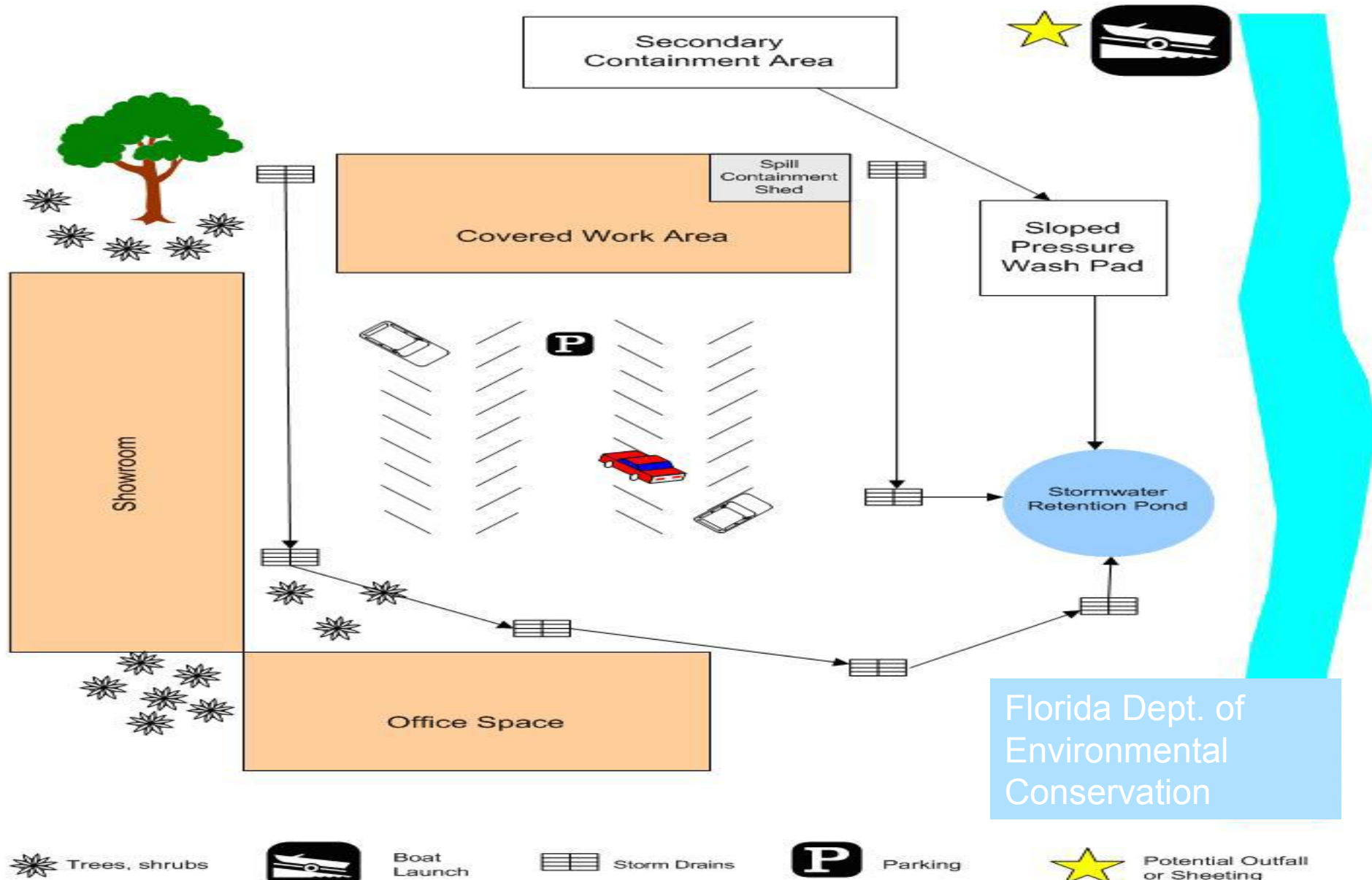
# SWPPP- Element 2

## Site Map

- Describes industrial activities
  - Examples: boat washing, fueling, boat painting
- General location information
- Site map that shows the location of:
  - Activities exposed to precipitation
  - Buildings, parking lots, stormwater outfalls, etc.
  - Waterbodies
  - General flow of stormwater

# Sample SWPPP Site Map

FIGURE 2a - SAMPLE SITE MAP OF DRAINAGE INCLUDING PREDICTION OF THE DIRECTION OF FLOW





# SWPPP- Element 3

## Summary of potential pollution sources

Potential sources include:

- Fueling stations and fuel storage
- Hazardous material storage
- Boat washing stations
- Engine repair, maintenance and washing areas
- Boat painting areas
- Boat ramp

# SWPPP- Element 4

## Description of stormwater controls

### ➤ Describe how you:

- Minimize exposure to precipitation
- Inspect and maintain equipment and stormwater controls
- Keep facility clean and materials properly stored and labeled
- Deal with potential spills or leaks
- Contain or minimize stormwater to reduce erosion and sedimentation
- Train employees in stormwater pollution prevention

# Fueling Dock - Covered

- Spill kits
- Staff training
- Spills must be contained quickly!



# Fueling Docks - Uncovered

- Spill kits
- Staff training
- Cover, if possible



# Used Oil Storage - Inside

- Inside building
- No floor drains
- Labeled
- Closed unless in use



Not subject to  
this permit, but  
a good idea!



# Used Oil Storage - Outside

- Roof
- 2<sup>nd</sup> containment
- 110%
- Labeled
- Closed unless in use



# Fuel Storage - Inside

- Labeled
- Inside building



Not subject to  
this permit, but  
a good idea!

# Fuel Storage - Outside

- Roof
- 2<sup>nd</sup> containment
- Labeled
- Closed unless in use





# Boat Washing - Inside

- Inside building
- Floor drain connected to sewer or a holding tank



# Boat Washing - Outside

- Don't washing boats over storm drains or near boat ramps
- Don't wash boats with detergents
- Locate washing stations in areas that slope away from surface waters.



# Boat Washing - Outside

- Over ground (not pavement)
- DES ground water discharge permit is needed



Do not do this!



# Storm Drains on Property

- Minimize sand
- Raise the lip to reduce sand discharge



# SWPPP- Element 5

## Schedules and procedures for preventing and monitoring stormwater pollution

- Document how and when you will:
  - Train employees
  - Ensure best management practices (BMPs)
  - Prevent, document and clean-up spills.
  - Inspect and conduct maintenance on stormwater control measures and facility equipment.
- Documentation of schedules and procedures to be used for monitoring and inspections. For example:
  - Who will perform activities?
  - Where sampling will occur?
  - What monitoring schedules and procedures will be followed?
  - What areas of facility will be inspected?

# SWPPP Element 6

## Permit eligibility and signature

- SWPPP must include documentation supporting the facility's claim of eligibility relating to:
  - Endangered species
  - Historic properties
  
- SWPPP must be signed by a responsible corporate officer, general partner, or duly authorized representative.